

IN THE SPECIFICATION

[0003] In the present invention, installation interference that activates the seal is generated by the seals-relaxed OD of the seal being larger than the ID OD of the annular gap the seal is being installed in and the seals relaxed ID of the seal being smaller than the OD ID of the annular gap the seal is being installed in, ~~is used to activate the seal.~~ The seal does not rely of any external axial load to function. The seal is assisted by pressure during normal functionality.

[006a] Figure 2 is a view of a ring such as 30 along lines 2-2 of Figure 1 showing the the undulating wave pattern.

[0011] While the seal assembly has been illustrated for use in a static condition, the design is workable in a dynamic situation. Those skilled in the art will appreciate that the seal assembly can be mounted for support in a groove in the inner 13 or outer body 15 forming the annular gap 17 that the seal assembly is designed to close. The backup rings 12 and 18 can be optionally used without the seal rings 28, 30, 36, and 38. Figure 2 shows the undulating profile viewed in the axial direction after assembly of one of said rings to an associated groove. Alternatively any number of seal rings can be used on the inside or the outside diameter. Alternatively, one or more seal rings in groove can be used only on the inside or the outside diameter, within the scope of the invention.